North Dakota

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	1,290	518,670	48	Total R&D performance, 1998 (millions)	$119	$214,668	49
Doctoral engineers, 1999[1]	140	107,100	48	Industry R&D, 1998 (millions)	$34	$163,480	47
S&E doctorates awarded, 1999[1]	48	25,953	47	Academic R&D, 1998 (millions)	$57	$25,342	49
of which, in life sciences	31%	25%		of which, in life sciences	65%	57%	
in psychology	31%	14%		in engineering	17%	16%	
in physical sciences	23%	14%		in physical sciences	9%	9%	
S&E postdoctorates, 1998[1]				Public higher education current-fund			
in doctorate-granting institutions	47	39,494	45	expenditures, 1997 (millions)	$450	$125,236	43
S&E graduate students, 1998[1]				Number of SBIR awards, 1990-98	31	35,413	46
in doctorate-granting institutions	1,171	422,834	47	Patents issued to state residents, 1999	67	83,901	47
Population, 1999 (thousands)	634	276,580	48	Gross state product, 1998 (billions)	$17	$8,800	51
Civilian labor force, 1999 (thousands)	337	140,536	48	of which, agriculture	9%	1%	
				manufacturing, mining, construction	16%	22%	
Personal income per capita, 1999	$23,313	$28,542	40	transportation, communication, utilities	10%	9%	
				wholesale and retail trade	19%	16%	
Federal spending				finance, insurance, real estate	13%	19%	
Total expenditures, 1999 (millions)	$4,535	$1,508,933	49	services	18%	21%	
R&D obligations, 1998 (millions)	$52	$70,445	49	government	15%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	52,088	27,360	0	376	21,036	1,145	2,171	49
Department of Agriculture	26,003	20,240	0	0	5,763	0	0	20
Department of Commerce	659	99	0	0	560	0	0	46
Department of Defense	2,556	201	0	355	2,000	0	0	50
Department of Energy	5,167	0	0	0	5,167	0	0	34
Dept. of Health & Human Services	2,872	5	0	9	2,113	335	410	48
Department of the Interior	6,893	6,815	0	12	25	0	41	29
Department of Transportation	1,720	0	0	0	0	0	1,720	38
Environmental Protection Agency	1,100	0	0	0	1,100	0	0	38
National Aeronautics and Space Admin	1,854	0	0	0	1,794	60	0	48
National Science Foundation	3,264	0	0	0	2,514	750	0	51
State rank, total	49	43	na	51	48	50	36	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".